

Serial No. 09/690,040

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Docket No. 4363-4012US4

On page 10, line 30, please replace the paragraph contained therein with the following:

-- Figs. 9a to 9c are illustrations of two mechanisms of particle sorting --

IN THE DRAWINGS

Please replace Sheets 4/13 and 5/13 with substitute sheets 4/13 and 5/13, enclosed herewith.

IN THE CLAIMS

Please **CANCEL** claims 54, 55, and 57-69 without prejudice.

Please **AMEND** the following claim:

143. (amended) A planar array of beads in a spatially non-random configuration, said array comprising a plurality of different bead types, wherein each of said bead types has a different biomolecule attached thereto ^{for} ~~capable of~~ forming a complex with an analyte, and wherein said bead types are encoded with a chemical or physical characteristic that uniquely identifies the biomolecule of said bead type, and wherein said array of beads is configured such that when said array of beads is contacted with liquid comprising an analyte, the beads of said array are in a continuous liquid phase.

Please **ADD** the following claims:

15.
-70. (new) The planar array of beads according to claim 43¹, wherein the beads of each type are encoded with a physical characteristic that uniquely identifies the biomolecules attached to said bead type.
16.
17. (new) The planar array of beads according to claim 43¹, wherein said planar array of beads is permanently anchored to a substrate.